DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE:

P.I. No.: M004324

OFFICE: Engineering Services

Bartow & Gordon Counties

I-75 Milling & Inlay Resurfacing

DATE: January 5, 2012

FROM:

Ronald E. Wishon, State Project Review Engineer

Rolland E. Wisholl, State Project Review Eligilieer

TO:

Eric Pitts, State Maintenance Engineer

Attn.: E. Reid Mathews

SUBJECT: IMPLEMENTATION OF VALUE ENGINEERING STUDY ALTERNATIVES

The VE Study for the above project was held December 13, 2011. Responses were received on January 4, 2012. Recommendations for implementation of Value Engineering Study Alternatives are indicated in the table below. The Project Manager shall incorporate the VE alternatives recommended for implementation to the extent reasonable in the design of the project.

ALT#	Description	Potential Savings/LCC	Implement	Comments
		Asphalt Pavin	g - Mainline	
AM-1	Reduce milling and SMA inlay from 2 inches to 1.5 inches on mainline and ramps	\$3,240,000	No	On previous projects, it has been advantageous to mill the recommended 2 inch depth to replace the entire existing 2 inch SMA course. This will provide a longer life for the roadway resurfacing.
AM-2	Reduce PEM overlap on shoulders	\$175,000	No	Leaving the proposed widths will match the existing widths of the overlap material leading into the project and exiting the project.
		Asphalt Pavin	g - Shoulder	
AS-1	Eliminate milling and Superpave inlay on shoulders	\$6,000,000	No	Because AS-2 will be implemented, AS-1 cannot be done.
AS-2	Reduce milling and Superpave inlay from 2 inches to 1.5 inches on shoulders	Proposed = \$1,362,000 Actual = \$484,634	Yes	The depth of the shoulder milling and inlay of Superpave material will be reduced to 1.5 inches. The Project Manager has provided calculations to support the revised savings.

		Traffic	Control	
C-1	Allow weekend daytime work hours	\$640,000	Yes	Work hours will be implemented to allow for weekend work hours ranging from 7:00 pm Friday until 6:00 am Monday. The work hours for the week days shall remain as 7:00 pm until 6:00 am Monday through Friday.
C-10	Use orange protective fencing to delineate the Environmentally Sensitive Area (ESA)	Cost increase (\$5,300)	No	The proposed moving area is large enough to protect the ESA.
		Mill	ing	
B-1	Use separate items for milling	\$0	No	It is the policy of Contract Bidding Administration to use one pay item, variable depth, for milling. The plans signify the different depths and locations for the contractor to determine a bid price. If multiple pay items were used, and the actual milling depth exceeded the depth of the deepest pay item, a Supplemental Agreement would be needed. By using one variable depth pay item, a Supplemental Agreement can be avoided.

The Office of Engineering Services concurs with the Project Manager's responses.

Approved:	Deg m	Date: 1/9/12	
	Gerald M. Ross PF. Chief Engineer		

REW/LLM Attachments

c: Russell McMurry

Eric Pitts/ Rachel Brown/Reid Mathews/Jimmy Witherow

Patrick Bowers/Kenny Beckworth

Ken Werho/Nabil Raad

Lisa Myers

Matt Sanders

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE:

P.I. No. M004324 Bartow/Gordon counties

OFFICE: Maintenance

Resurfacing of SR 401 (I-75)

DATE: January 3, 2012

FROM:

Eric Pitts, State Maintenance Engineer,

E. Reid Mathews, Maintenance Design Manager

TO:

Ronald E. Wishon, State Project Review Engineer

Attn.: Lisa Myers

SUBJECT: RESPONSE TO VALUE ENGINEERING STUDY ALTERNATIVES

Attached are the responses for the Value Engineering Study. This office concurs with the responses.

If you have any questions, please contact E. Reid Mathews, Project Manager at 404-631-1391

EP:erm

c: Russell McMurry

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

1) AM-1: Reduce the mainline and ramp milling and SMA inlay depth. VE Team Savings: \$3,240,000.00

No, will not implement. From previous projects, it has been advantageous to mill the recommended 2 inch depth to replace the original 2 inch SMA course. This will provide a better result in the life of the roadway resurfacing.

2) AM-2: Reduce the PEM shoulder overlap. VE Team Savings: \$175,000.00

No, will not implement. Leaving at the recommended widths in the plans will match the existing widths of existing overlap of the material leading into the project and exiting the project.

3) AS-1: Eliminate the shoulder milling and Superpave inlay. VE Team Savings: \$6,000,000.00

No, will not implement – Because we are implementing AS-2. Only one of the recommendations can be implemented.

4) AS-2: Reduce the shoulder milling and Superpave inlay depth. VE Team Savings: \$1,362,000.00

Yes, will implement. The depth of the shoulder milling and inlay of Superpave asphaltic material shall be revised from 2 inch depth to 1.5 inch depth.

Revised savings: \$484,633.65 See calculations below:

Total shoulder area to be milled and resurfaced on mainline = 560985 square yards

Asphalt quantities for this area (560985 sy)(165 lbs/sy)/2000 lbs/ton = 46280 tons Estimated cost of asphalt (46280 tons)(71.22) = \$3,296,061.60

Original estimate using 2 inch milling depth and resurfacing at 220 lbs/sy = \$3,780.665.25

Total estimated saving = \$484,633.65

5) C-1: Allow weekend daytime work and lane closings

Yes, will implement. Work hours will be implemented to allow for weekend work hours ranging from 7:00 p.m., Friday till 6:00 a.m., Monday. The work hours for the week days shall remain as 7:00 p.m. till 6:00 a.m. Monday evening through Friday morning.

6) C-10: Use orange protective fence to delineate the ESA.

No, will not implement. Mowing area is at a wide enough area to protect the ESA.

7) B-1; Design Consideration: Use separate items for milling.

It is the policy of Contract Bidding in GDOT to use one Pay Item, variable depth, for millings. The plans signify the different depths and locations for the contractor to base his pricing.

PRECONSTRUCTION STATUS REPORT FOR PI:M004324

	M004324	-	1-75 FROM SR 61/BARTOW TO	3ARTOW TO S.	SR 156/GORDON	DON						MGMTLL	MGMT LET DATE:	06/22/2012	112
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Prel. Parcel CT:		Total Parc	Total Parcel in ROW System:	Cor	Cond. Filed:			×	Acquired by:		NR			DEEDS CT:	
Under Review:		Options - Pending:	Pending:	Rel	Relocations:			¥	Acquisition MGR:	GR:					
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